

ITEM: 11

SUBJECT: Shasta County Service Area No. 17, Cottonwood Wastewater Treatment Plant, Shasta County

BOARD ACTION: *Consideration of NPDES Permit Renewal and Cease and Desist Order*

BACKGROUND: Shasta County Service Area No. 17 owns and operates a wastewater collection, treatment, and disposal system for the community of Cottonwood, and discharges an average dry weather flow of 0.289 million gallons per day (mgd) of treated domestic wastewater to Cottonwood Creek a tributary to the Sacramento River. The wastewater treatment plant consists of: a headworks with bar screen and Parshall flume with ultrasonic level sensor; two parallel oxidation ditches with aerators; two parallel secondary clarifiers with skimmers; traveling-bridge sand filter unit; chlorine disinfection with chlorine gas; serpentine chlorine contact chamber; dechlorination by addition of sulfur dioxide; an outfall line and diffuser to Cottonwood Creek; a northern 4.3 acre-feet sludge settling basin (formerly 0.83 acre-feet), a southern 0.63 acre-feet sludge settling basin; and four, sludge/sand drying beds. The permit contains effluent limits for BOD, total suspended solids, settleable solids, pH, chlorine residual, coliform bacteria, copper and zinc.

Significant changes from the previous permit include implementation of the California Toxics Rule and National Toxics Rule. Based on results of effluent monitoring Discharger cannot currently comply with the final effluent limitations for copper and Zinc. Final effluent limits for copper and zinc are based on previously existing Basin Plan water quality objectives and therefore are fully applicable upon adoption of this NPDES permit. Therefore, a Cease and Desist Order (CDO) is proposed to provide a compliance time schedule for copper and zinc. The CDO includes interim limits for copper and zinc based on the Discharger's current operations and treatment practices. Full compliance is required by 1 March 2010. These requirements also include additional monitoring for ammonia, cyanide, bromodichloromethane, chloroform, and bis (2-ethylhexyl) phthalate to determine if effluent limits are necessary for these constituents. The Regional Board may reopen this NPDES permit and modify the final effluent limits, if appropriate, based on results of monitoring and studies the Discharger may conduct.

ISSUES: None. This item is uncontested.

Mgmt. Review \_\_\_\_\_

Legal Review \_\_\_\_\_

17/18 March 2005  
Central Valley Regional Water Quality Control Board Meeting  
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